From the INTERNATIONAL BUREAU

PCT

FIRST NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL: APPLICATION (TO DESIGNATED OFFICES WHICH DO NOT APPLY THE 30 MONTH TIME LIMIT

UNDER ARTICLE 22(1))

GĦAYE, Lynne, F. Urauhart-Dykes & Lord LLP New Priestgate House 57 Priestigate

2005 eterborough Cambridgeshire PE1 1JX NKSROYAUME-UNI

(PCT Rule 47.1(c))

Date of mailing (day/month/year) 06 May 2005 (06.05.2005)

Applicant's or agent's file reference P351972WO/LFC

IMPORTANT NOTICE

International application No. PCT/GB2004/004176 International filing date (day/month/year) 01 October 2004 (01.10.2004)

ETERBO

Priority date (day/month/year) 03 October 2003 (03.10.2003)

Applicant

CARROLL AUTOLOAD LIMITED et al

- 1. ATTENTION: For any designated Office(s), for which the time limit under Article 22(1), as in force from 1 April 2002 (30 months from the priority date), does apply, please see Form PCT/IB/308(Second and Supplementary Notice) (to be issued promptly after the expiration of 28 months from the priority date).
- Notice is hereby given that the following designated Office(s), for which the time limit under Article 22(1), as in force from 1 April 2002, does not apply, has/have requested that the communication of the international application, as provided for in Article 20, be effected under Rule 93bis.1. The International Bureau has effected that communication on the date indicated below: 14 April 2005 (14.04.2005)

CH

In accordance with Rule 47.1(c-bis)(i), those Offices will accept the present notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

The following designated Offices, for which the time limit under Article 22(1), as in force from 1 April 2002, does not apply, have not requested, as at the time of mailing of the present notice, that the communication of the international application be effected under Rule 93bis.1:

LU, SE, TZ, UG, ZM

In accordance with Rule 47.1(c-bis)(ii), those Offices accept the present notice as conclusive evidence that the Contracting State for which that Office acts as a designated Office does not require the furnishing, under Article 22, by the applicant of a copy of the international application.

4. TIME LIMITS for entry into the national phase

For the designated Office(s) listed above, and unless a demand for international preliminary examination has been filed before the expiration of 19 months from the priority date (see Article 39(1)), the applicable time limit for entering the national phase will, subject to what is said in the following paragraph, be 20 MONTHS from the priority date.

In practice, time limits other than the 20-month time limit will continue to apply, for various periods of time, in respect of certain of the designated Offices listed above. For regular updates on the applicable time limits (20 or 21 months, or other time limit), Office by Office, refer to the PCT Gazette, the PCT Newsletter and the PCT Applicant's Guide, Volume II, National Chapters, all available from WIPO's Internet site, at http://www.wipo.int/pct/en/index.html.

It is the applicant's sole responsibility to monitor all these time limits.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Nora Lindner

Facsimile No.+41 22 740 14 35

Facsimile No.+41 22 338 89 65

Form PCT/IB/308(First Notice) (January 2004)

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	Ed (Op. PCT					
To: URQUHART-DYKES & LORD LLP Attn. Chave, Lynne F. New Priestgate House	THE INTERNATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE VRITTEN OPINION OF THE INTERNATIONAL ZUBBARCHING AUTHORITY, OR THE DECLARATION ANKS (PCT Rule 44.1) Date of mailing					
Applicant's or agent's file reference	(day/montn/year) 22/04/2005					
P351972WO/LFC	FOR FURTHER ACTION See paragraphs 1 and 4 below					
International application No. PCT/GB2004/004176	International filing date (day/month/year) 01/10/2004					
Applicant						
CARROLL AUTOLOAD LIMITED						
1. X The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet. Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascimile No.: (41-22) 740.14.35 For more detailed instructions, see the notes on the accompanying sheet. 2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith. 3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. 4. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, before the completion of the technical preparations for international publication. The applicant may submit comments on an informal basis on the written opinion of the I						
international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date. Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices. In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months. See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.						
Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Ellen Elskamp					

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims,description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see *PCT Applicant's Guide*, Volume I/A, paragraph 296).

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:			

see form PCT/ISA/220

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

Date of mailing

(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference see form PCT/ISA/220

FOR FURTHER ACTION

See paragraph 2 below

International application No. PCT/GB2004/004176

International filing date (day/month/year)

Priority date (day/month/year)

01.10.2004

03.10.2003

International Patent Classification (IPC) or both national classification and IPC

B28C5/12, B28C5/46, B28C7/16, B01F15/02, B01F13/04, B65D88/04, F16J12/00, F16J13/24

Applicant

CARROLL AUTOLOAD LIMITED

- This opinion contains indications relating to the following items: 1.
 - Box No. I Basis of the opinion
 - Box No. II **Priority**

 - ☑ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
 - ☑ Box No. IV Lack of unity of invention
 - Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial

applicability; citations and explanations supporting such statement

- ☐ Box No. VI Certain documents cited
- ☑ Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:

European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas

Tel. +31 70 340 - 2040 Tx: 31 651 epo nl

Fax: +31 70 340 - 3016

Authorized Officer

Real Cabrera, R

Telephone No. +31 70 340-4256



100573617 International application No. PCT/GB2004/004176

1AP20 RESURBILITO 28 MAR 2006

	Вох	No	o. I Basis of the opinion					
1.	 With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. 							
		lan	is opinion has been established on the basis of a translation from the original language into the following guage , which is the language of a translation furnished for the purposes of international search ider Rules 12.3 and 23.1(b)).					
2.	2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:							
	a. ty	/pe	of material:					
	E)	a sequence listing					
	C		table(s) related to the sequence listing					
b. format of material:								
	E		in written format					
	ב)	in computer readable form					
c. time of filing/furnishing:								
]	contained in the international application as filed.					
		כ	filed together with the international application in computer readable form.					
		-	furnished subsequently to this Authority for the purposes of search.					
3.		has	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto is been filed or furnished, the required statements that the information in the subsequent or additional poles is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.					
4.	Additional comments:							

International application No. PCT/GB2004/004176

	Box	No. II	Priority		
1.	☐ The following document has not been furnished:				
			copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).		
			translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).		
			quently it has not been possible to consider the validity of the priority claim. This opinion has neless been established on the assumption that the relevant date is the claimed priority date.		
2.		has be	binion has been established as if no priority had been claimed due to the fact that the priority claim en found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international ate indicated above is considered to be the relevant date.		
3.		was no	not been possible to consider the validity of the priority claim because a copy of the priority document t available to the ISA at the time that the search was conducted (Rule 17.1). This opinion has neless been established on the assumption that the relevant date is the claimed priority date.		
4	٨٨٨	itional a	bearvations if necessary:		

International application No. PCT/GB2004/004176

	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:					
	the entire international application,				
\boxtimes	claims Nos. 13-15				
bed	cause:				
	the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):				
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):				
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.				
\boxtimes	no international search report has been established for the whole application or for said claims Nos. 13-15				
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:				
	the written form		has not been furnished		
			does not comply with the standard		
	the computer readable form		has not been furnished		
			does not comply with the standard		
	the tables related to the nucleon not comply with the technical re	tide a equire	and/or amino acid sequence listing, if in computer readable form only, do ements provided for in Annex C-bis of the Administrative Instructions.		
	See separate sheet for further of	detai	ls		

	Box No.	IV Lack of unity of	inventior)				
1.				4.5.0	6) to pay additional fe	es, the applicant has:		
	☐ paid additional fees. ☐ In response to the invitation (Form PCT/ISA/206) to pay additional fees, the applicant has:							
		·		-11				
		pana maamamamamama	•	otest.				
	٥	not paid additional	fees.					
2.	☐ This	Authority found that that the applicant to pay addition	e require nal fees.	ment of un	ity of invention is not	complied with and chose not to invite		
3.	This Auth	nority considers that the	e requirer	ment of uni	ty of invention in acco	ordance with Rule 13.1, 13.2 and 13.3 is		
	□ comp	□ complied with						
	⊠ not co	mplied with for the foll	owing rea	asons:				
	see	see separate sheet						
4.	Consequ	ently, this report has b	een estat	olished in r	espect of the following	parts of the international application:		
	□ all pa	rts.				·		
the parts relating to claims Nos. 1-12								
	•	J						
	Box No.	V Reasoned stater al applicability; citation				rd to novelty, inventive step or statement		
1.	Statement							
	Novelty (N)	Yes: No:	Claims Claims	2,3,5-7,10,12 1,4,8,9,11			
	Inventive	step (IS)	Yes: No:	Claims Claims	- 1-12			
	Industria	applicability (IA)	Yes: No:	Claims Claims	1-12 -			
2.	Citations	and explanations	-					

see separate sheet

International application No. PCT/GB2004/004176

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

10/573617

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/GB2004/004176

MP20 2006 11 10 10 11 12 2006

Re Item IV Lack of unity of invention

1. The separate inventions are:

- Group I (claims 1-12): Mixing apparatus with single pneumatic source to

charge and discharge the vessel.

Group I (claims 13-15): Spherical mixing vessel.

They are not so linked as to form a single general inventive concept (Rule 13.1 PCT) for the following reasons:

- 2.1 The prior art US-A-5 908 240 discloses a mixing apparatus comprising a batch mixing vessel having an inlet, an agitation assembly and an outlet; the apparatus further comprising means for pressurizing the mixing vessel to assist in evacuation of the mixed constituents, and a batch loading means including a conduit.
- 2.2 Group I (claims 1-12) is distinguished from the prior art by further revealing as special technical features the disposition of a single pneumatic source for both pressurizing the mixing vessel and to drive a jet pump comprising the batch loading means.

The special technical features of Group I, as defined in Rule 13(2) PCT therefore are:

- Mixing apparatus with single pneumatic source to charge and discharge the vessel.
- 2.3 Group II (claims 13-15) is distinguished from the prior art by further revealing as special technical features the vessel being spherical.

The special technical features of Group II, as defined in Rule 13(2) PCT therefore are:

Spherical mixing vessel.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/GB2004/004176

3. The special technical features of Groups I and II are neither common nor the same or corresponding and solve different problems. Consequently the requirements of Unity of Invention (Rule 13(2) PCT) are not fulfilled.

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1. Reference is made to the following documents:
 - D1: US 2003/010792 A1 (JOHNSON KENNETH A ET AL) 16 January 2003 (2003-01-16)
 - D2: US-B1-6 354 726 (FOERSTER WERNER) 12 March 2002 (2002-03-12)
- The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.
 - The document D1 discloses (cf. figures 10 and 12) a mixing apparatus comprising a batch mixing vessel (906) having an inlet (917) to receive constituent material, an agitation assembly (cf. figure 12) for mixing the constituents within the vessel and an outlet (916) to convey batches of mixed material; the apparatus further comprising means (1018) for pressurising the mixing vessel to assist in evacuation of the mixed constituents from the outlet, and a batch loading means including a conduit through which the constituents are conveyed in use by fluid flow means, wherein a single pneumatic source is used both to pressurize the mixing vessel and to drive a jet pump (1024) comprising the batch loading means.
- 3. Dependent claims 2-12 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step, the reasons being as follows:
- 3.1 The additional features of **claims 4, 8, 9 and 11** are already disclosed in document D1, cf. figures.
- 3.2 The additional features of **claim 12** are already disclosed in document D2, cf. figure 1.
- 3.3 The additional features of **claims 2, 3, 5-7 and 10** appear to be obvious for the skilled person.

Re Item VII

Certain defects in the international application

- Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the document D1 and D2 is not mentioned in the description, nor are these documents identified therein.
- 2. The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).

Re Item VIII

Certain observations on the international application

- 1. Claim 1 refers to a "mixing apparatus". Claims 2-12 should refer to a "mixing apparatus" too, Article 6 PCT.
- 2. Some of the features in the apparatus **claim 8** relate to a method of using the apparatus rather than clearly defining the apparatus in terms of its technical features. The intended limitations are therefore not clear from this claim, contrary to the requirements of Article 6 PCT.